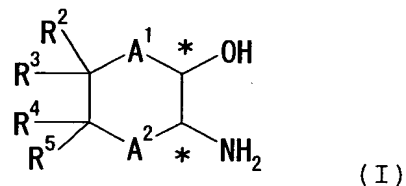
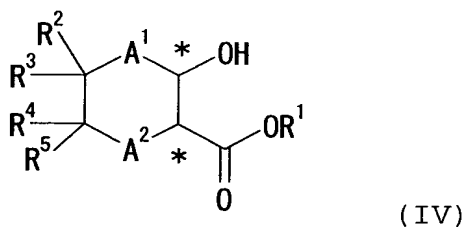


What is claimed is:

1. A process for the production of an optically active amino alcohol represented by the following formula (I)

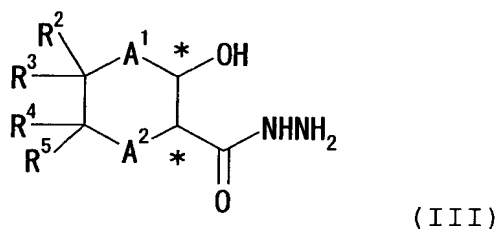


(wherein, R^2 , R^3 , R^4 , R^5 , A^1 , A^2 , m , n and $*$ have the same meanings which will be defined below where the relative configuration of hydroxyl group to amino group on each of asymmetric carbons marked $*$ is trans) or a salt thereof, comprising by reacting an optically active hydroxycarboxylate represented by the following formula (IV)



(wherein, R^1 is an alkyl group having 1 to 6 carbon(s); R^2 to R^5 each independently is hydrogen atom, a lower alkyl group or an optionally-substituted phenyl group; with proviso that R^2 and R^4 or R^2 and R^5 or R^3 and R^4 or R^3 and R^5 taken together with the carbon atoms to which they are attached optionally form a ring or fused ring; A^1 is $-(CH_2)_m-$ while A^2 is $-(CH_2)_n-$ (where m and n each is an integer of 0 to 3 and $m + n$ is 1 to 3); and $*$ is an asymmetric carbon atom where the relative

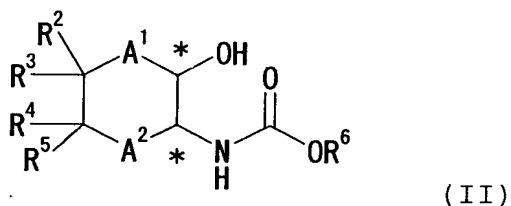
configuration of hydroxyl group to alkoxy carbonyl group on each of the asymmetric carbons marked * is trans) with hydrazine to prepare an optically-active hydroxycarboxylic hydrazide compound represented by the following formula (III)



(wherein, R^2 to R^5 , A^1 , A^2 , m , n and $*$ have the same meanings as defined above where the relative configuration of hydroxyl group to hydrazinocarbonyl group on each of asymmetric carbons marked $*$ is trans), then conducting a Curtius reaction in the presence of an alcohol represented by the following formula (VI)



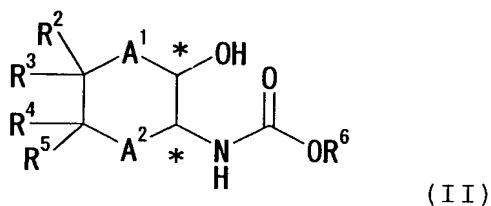
(wherein, R^6 is an alkyl group having 1 to 6 carbon(s) or an optionally-substituted benzyl group) to give an optically active alkoxy carbonylamino alcohol represented by the following formula (II)



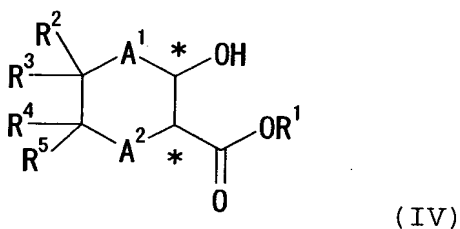
(wherein, R^2 to R^6 , A^1 , A^2 , m , n and $*$ have the same meanings as defined above where the relative configuration of hydroxyl

group to alkoxycarbonylamino group on each of asymmetric carbons marked * is trans) and then deprotecting a protective group for the amino group.

2. A process for the production of an optically active alkoxycarbonylamino alcohol represented by the following formula (II)

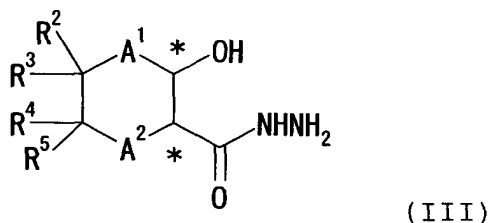


(wherein, R^2 to R^6 , A^1 , A^2 , m , n and $*$ have the same meanings as defined above where the relative configuration of hydroxyl group to alkoxycarbonylamino group on each of asymmetric carbons marked $*$ is trans), comprising by reacting an optically active hydroxycarboxylate represented by the following formula (IV)



(wherein, R^1 to R^5 , A^1 , A^2 , m , n and $*$ have the same meanings as defined above where the relative configuration of hydroxyl group to alkoxycarbonyl group on each of the asymmetric carbons marked $*$ is trans) with hydrazine to prepare an optically-active hydroxycarboxylic hydrazide compound represented by the

following formula (III)

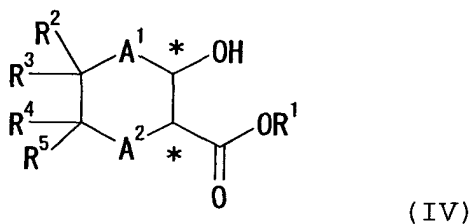


(wherein, R^2 to R^5 , A^1 , A^2 , m , n and $*$ have the same meanings as defined above where the relative configuration of hydroxyl group to hydrazinocarbonyl group on each of asymmetric carbons marked $*$ is trans) and conducting to a Curtius reaction in the presence of an alcohol represented by the following formula (VI)



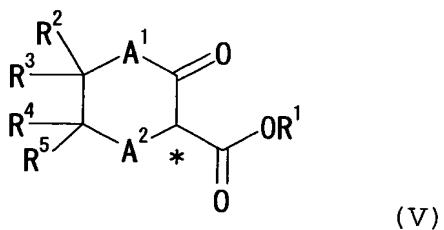
(wherein, R^6 has the same meaning as defined already).

3. The process for the production according to claim 1 or 2, wherein the optically active hydroxycarboxylate represented by the following formula (IV)



(wherein, R^1 to R^5 , A^1 , A^2 , m , n and $*$ have the same meanings as defined above where the relative configuration of hydroxyl group to alkoxy carbonyl group on each of the asymmetric carbons marked $*$ is trans) is a product prepared by subjecting a β -keto

ester represented by the following formula (V)



(wherein, R¹ to R⁵, A¹, A², m and n have the same meanings as defined above) to an asymmetric hydrogenation in the presence of a ruthenium complex including an optically active phosphine compound as a ligand.

4. The process for the production according to any one of claims 1 to 3, wherein R⁶ is an optionally substituted benzyl group.

5. The process for the production according to any one of claims 1 to 4, wherein R⁶ is benzyl group.